

GENERAL NOTES:

1. TOTAL PROJECT AREA = ±0.5 AC.
2. TOTAL DISTURBED AREA = 0.4 AC. (UNDERWATER DREDGING)
3. CURRENT ZONING = AG1; EXISTING USE: PUBLIC PARK
4. BOUNDARY INFORMATION BASED UPON: CITY OF JOHNS CREEK GIS
5. TOPOGRAPHIC INFORMATION BASED ON CITY OF JOHNS CREEK GIS AND FIELD RUN TOPOGRAPHIC SURVEY (LAKE ONLY) BY DEVELOPMENT PLANNING & ENGINEERING DATED MAY 3, 2016. ELEVATIONS ARE BASED ON MEAN SEA LEVEL.
6. A PORTION OF THIS PROPERTY IS LOCATED WITHIN AN AREA OF MINIMAL FLOOD HAZARD (ZONE X) AS PER FULTON COUNTY F.I.R.M. No. 13121C0069F, MAP HAVING A REVISED DATE OF SEPTEMBER 18, 2013. NO WORK IS PROPOSED WITHIN THE AREA OF MINIMAL FLOOD HAZARD (ZONE X).

PROJECT NARRATIVE:

PROPOSED PROJECT: DREDGING OF SUBMERGED SEDIMENT IN EXISTING LAKE

PRE-DEVELOPED ESTIMATED RUNOFF CURVE NUMBER CN = 68*

POST-DEVELOPED ESTIMATED RUNOFF CURVE NUMBER CN = 68*

* VISUAL OBSERVATION

EARTHWORK:

NEAT CUT (HYDRAULIC DREDGING) = 700 C.Y. / NEAT FILL = 0 C.Y.

NPDES FEE CALCULATION: N/A (PROJECT AREA IS LESS THAN 1-ACRE DISTURBED)

PROJECT RECEIVING WATERS: TRIBUTARY TO THE CHATTAHOOCHEE RIVER. RECEIVING WATERS SUPPORT WARM WATER FISHERIES. AN EXISTING CREEK IS BELOW THE NEWTOWN PARK LAKE DAM JUST OUTSIDE THE PROJECT AREA. DAILY INSPECTION, MAINTENANCE, AND DOCUMENTATION OF BMPs IS CRITICAL.

DESCRIPTION OF PROPOSED CONSTRUCTION ACTIVITY: THE PROJECT CONSISTS OF THE REMOVAL OF EXISTING SUBMERGED SEDIMENT USING THE HYDRAULIC DREDGING METHOD. SEDIMENT WILL BE REMOVED AND TRANSPORTED BY PUMP AND PIPE CONDUIT TO A GEOBAG FOR SEDIMENT CONTAINMENT AND Dewatering.

EXISTING SITE CONDITIONS: THE PROPERTY IS BOUNDED TO THE NORTH BY RESIDENTIALLY ZONED VACANT PROPERTY, TO THE EAST BY BRUMBELOW ROAD, AND TO THE SOUTH AND WEST BY OTHER SECTIONS OF NEWTOWN PARK. EXISTING TOPOGRAPHY CONSISTS OF ROLLING SLOPES. THE SITE CURRENTLY CONTAINS WOODED, GRASS AND IMPERVIOUS AREAS.

7. ANY EXISTING SITE IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR.
8. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE FOR ALL LOW AREAS AS REQUIRED DURING CONSTRUCTION.
9. MAXIMUM CUT SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL.

SOIL EROSION CONTROL NOTES:

1. THE SOIL EROSION AND SEDIMENT CONTROL PROCEDURES AND DETAILS AS SHOWN HEREON AND STIPULATED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" SHALL BE FOLLOWED AND INSTALLED IN A MANNER SO AS TO MINIMIZE SEDIMENT LEAVING THE SITE.
2. THE CONTRACTOR WILL BE REQUIRED TO INCORPORATE ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES INTO THE PROJECT AT THE EARLIEST PRACTICAL TIME DURING CONSTRUCTION. THE EROSION CONTROL MEASURES DETAILED HEREON SHALL BE CONTINUED UNTIL THE PERMANENT DRAINAGE FACILITIES HAVE BEEN CONSTRUCTED AND UNTIL ALL DISTURBED AREAS HAVE BEEN RE-STABILIZED SO AS TO ESTABLISH AN EFFECTIVE EROSION DETERRENT. ALL COLLECTED SEDIMENT REMOVED FROM IMPOUNDMENT AREAS SHALL BE EVENLY DISTRIBUTED AND PERMANENTLY STABILIZED.
3. TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER VI, SECTION III OF THE MANUAL DESCRIBED IN NOTE NO. 1 ABOVE.
4. EROSION CHECKS SHALL BE CONSTRUCTED AT THE LOCATION AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS, AND SHALL BE CONSTRUCTED BEFORE ANY GRADING IS ACCOMPLISHED WHENEVER POSSIBLE AND AS SOON AS PRACTICAL OTHERWISE. ALL GRADED AREAS, SLOPES, ETC. WHICH DRAIN TOWARD THE EROSION CHECK SHALL BE GRASSED OR STABILIZED WITH STRAW MULCH IMMEDIATELY AFTER GRADING. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE INTEGRITY AND EFFECTIVENESS OF ALL EROSION CHECKS UNTIL ALL DISTURBED AREAS ARE RE-STABILIZED. THE EXTENT AND LOCATION OF EROSION CHECKS INDICATED ON THE PLANS IS THE ESTIMATED NUMBER REQUIRED. ADDITIONAL EROSION CHECKS MAY BE NECESSARY DEPENDING ON ACTUAL FIELD CONDITIONS AND SHALL BE INSTALLED WHEN DIRECTED BY THE GOVERNING AUTHORITY. WHEN THE PERMANENT DRAINAGE STRUCTURES HAVE BEEN INSTALLED AND ALL DISTURBED AREAS HAVE BEEN RE-STABILIZED ADEQUATELY TO BE AN EFFECTIVE EROSION DETERRENT, EROSION CHECKS SHALL BE REMOVED AND ALL BARE SPOTS SHALL BE PERMANENTLY STABILIZED.
5. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE OWNER OR HIS REPRESENTATIVE.
6. ALL CUT AND FILL SLOPES SHALL BE SURFACED ROUGHENED AND VEGETATED WITHIN (7) DAYS AFTER GRADING IS COMPLETED.
7. ALL FILL SLOPES WILL HAVE SILT FENCE AT THE TOE OF SLOPES.
8. THE EXTENT AND LOCATION OF EROSION CONTROL MEASURES SHOWN ARE THE ESTIMATED REQUIRED. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO ACTUAL FIELD CONDITIONS, AND WILL BE INSTALLED AT CONTRACTOR'S EXPENSE WHEN DIRECTED BY THE OWNER OR HIS REPRESENTATIVE.
9. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
10. A TRIBUTARY TO THE CHATTAHOOCHEE RIVER IS LOCATED IN THE PROJECT AREA.
11. THERE IS A LAKE LOCATED WITHIN 500' OF THIS SITE (NEWTOWN PARK LAKE).
12. THERE ARE STATE WATERS LOCATED WITHIN 200' OF THIS SITE.
13. A 50' FOOT UNDISTURBED VEGETATIVE BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT AND MAINTAINED.
14. TO OUR KNOWLEDGE, THIS SITE DOES NOT CONTAIN WETLANDS WITHIN THE PROPOSED LIMITS OF DISTURBANCE. IF NECESSARY, THE APPLICANT WILL FIRST OBTAIN A WETLAND ALTERATION SECTION 404 PERMIT FROM THE CORPS OF ENGINEERS PRIOR TO DISTURBING ANY JURISDICTIONAL WETLANDS.
15. THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
16. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
17. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL AND TREAT THE SEDIMENT SOURCE.
18. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
19. CONSTRUCTION WASTE AND/OR VEGETATIVE MATERIAL MUST BE TAKEN TO A STATE APPROVED LANDFILL.
20. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25-FOOT OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WETTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
21. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
22. ALL UNDISTURBED BUFFERS SHALL BE IDENTIFIED WITH ORANGE, FOUR-FOOT TREE-SAVE FENCING PRIOR TO ANY LAND DISTURBANCE.
23. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO AND EXIT FROM THE SITE.
24. CONSTRUCTION EXISTS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
25. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
26. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
27. OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
28. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
29. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UP STREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
30. FAILURE TO INSTALL, OPERATE OR MAINTAIN EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED CONSISTENT WITH THE CITY OF JOHNS CREEK EROSION CONTROL ORDINANCE.
31. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
32. ALL SEWER EASEMENTS DISTURBED MUST BE DRESSED AND GRASED TO CONTROL EROSION.

EROSION, SEDIMENT AND POLLUTION CONTROL AND NPDES GENERAL NOTES:

STABILIZATION MEASURES:

SOIL STABILIZATION SHALL OCCUR WITHIN 14 DAYS ON A GIVEN CONSTRUCTION SITE, AS A WHOLE OR SITE-SPECIFIC PORTION, WHEN ACTIVITIES CEASE TEMPORARY OR PERMANENTLY IN THESE AREAS (SEE CONSTRUCTION DETAILS FOR DEVICES THAT MAY BE USED AND THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION).

IF THE 14TH DAY IS PRECLUDED BY ADVERSE WEATHER CONDITIONS, WHICH LIMITS SITE ACCESS OR EQUIPMENT MOBILITY, STABILIZATION SHALL OCCUR AS SOON AS PRACTICAL.

IF CONSTRUCTION ACTIVITIES ARE TO RESUME IN A SITE-SPECIFIC AREA IN LESS THAN 21 DAYS, AFTER DATE OF TEMPORARY CEASE OF WORK, THEN THE 14-DAY LIMIT IS WAIVED, IMMEDIATE STABILIZATION SHALL OCCUR UPON THE 21ST DAY IF NO MAJOR WORK IS OCCURRING IN THE DEFINED AREA.

PRESERVATION OF NATURAL VEGETATION SHALL OCCUR THROUGHOUT THE SITE WHERE PRACTICAL. SEE LOCATIONS OF BUFFER ZONES AND TREE SAVE AREAS AS IDENTIFIED ON THE CONSTRUCTION PLANS FOR THIS PROJECT.

DATES SHALL BE RECORDED WHEN MAJOR GRADING OCCURS, WHEN ACTIVITIES CEASE TEMPORARILY OR PERMANENTLY, AND WHEN STABILIZATION MEASURES ARE INITIALIZED.

STRUCTURAL PRACTICES:

THE STRUCTURAL PRACTICES USED FOR THIS PROJECT INCLUDE A DETAILED EROSION, SEDIMENT AND POLLUTION CONTROL PLAN THAT INCORPORATES THE USE OF SILT FENCING, GEOBAGS, HAYBALES, CHECKDAMS, AND PERMANENT VEGETATION.

STRUCTURAL PRACTICES USED FOR THIS PROJECT THAT WILL CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED INCLUDE PERMANENT VEGETATION AND RIP RAP.

SEDIMENT BASINS:

A SEDIMENT BASIN WILL NOT BE UTILIZED FOR THIS PROJECT DUE TO NATURE OF HYDRAULIC DREDGING (NO ABOVE-WATER LAND DISTURBANCE). HYDRAULIC DREDGING WILL BE SELF CONTAINED WITHIN THE EXISTING LAKE BED AND THE SLURRY MIX OF WATER AND SEDIMENT WILL BE PUMPED TO A GEOBAG FOR Dewatering. IT IS OUR PROFESSIONAL OPINION THE CONSTRUCTION OF A SEDIMENT BASIN WILL BE A DETRIMENT TO THE SURROUNDING ENVIRONMENT.

MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES:

ALL STRUCTURAL BMPs SHALL BE MAINTAINED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". ALL SEDIMENT CONTROL DEVICES (EXCEPT SEDIMENT BASINS) INSTALLED SHALL AS A MINIMUM, BE CLEARED OF SEDIMENT WHEN ONE-HALF THE CAPACITY, BY HEIGHT, DEPTH, OR VOLUME HAS BEEN REACHED. SEDIMENT BASINS SHALL BE CLEARED OF SEDIMENT WHEN ONE-THIRD THE CAPACITY BY VOLUME HAS BEEN REACHED.

AS A MINIMUM THE CONTRACTOR SHALL COMPLETE THE PERMANENT GRASSING, OR TEMPORARY GRASSING, OR MULCHING, AS APPROPRIATE AND IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", ON ALL CUT AND FILL SLOPES ON A WEEKLY BASIS DURING GRADING OPERATIONS, EXCEPT PROJECTS WITH A TOTAL OF 3 ACRES OR LESS OF GRASSING MAY BE TREATED EVERY TWO WEEKS. WHEN CONDITIONS WARRANT, THE ENGINEER MAY REQUIRE MORE FREQUENT INTERVALS FOR THIS WORK. AT A MINIMUM, MULCH SHALL BE PLACED TO PROVIDE TEMPORARY COVER UNTIL VEGETATION CAN BE ESTABLISHED.

STORM WATER MANAGEMENT:

VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT THE DISCHARGE LOCATION OF THE GEOBAG(S). OPERATORS, AS DEFINED IN THE NPDES PERMIT REGULATIONS, ARE RESPONSIBLE FOR THE PROPER INSTALLATION AND TIMELY MAINTENANCE OF STORM WATER MANAGEMENT MEASURES TO PREVENT, WHEN CONDITIONS WARRANT, THE ENGINEER MAY REQUIRE MORE FREQUENT INTERVALS FOR THIS WORK. AT A MINIMUM, MULCH SHALL BE PLACED TO PROVIDE TEMPORARY COVER UNTIL VEGETATION CAN BE ESTABLISHED.

STORM WATER DETENTION IS NOT PROVIDED FOR THIS SITE.

BMP INSPECTIONS:

THE DESIGN PROFESSIONAL WHO PREPARED THE ESBPC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.

AMENDMENTS/REVISIONS TO THE EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN THAT HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. AN UPDATED COPY OF THE ESBPC PLAN SHALL BE KEPT ON-SITE.

CONTROLS:

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL WASTE MATERIALS IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.

STORAGE LOCATION AND DISPOSAL PROCEDURES FOR CONCRETE TRUCK OR MIXER WASH OUT:

A CONCRETE TRUCK WASH OUT LOCATION IS NOT PROVIDED SINCE CONCRETE WORK IS NOT PART OF THIS PROJECT.

EMERGENCY PROCEDURES FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS:

SPILL CLEANUP AND CONTROL PROCEDURES:

- LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITER, SAND, SANDLUST PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE GEORGIA E.P.D. WILL BE CONTACTED WITHIN 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

EMERGENCY PROCEDURES FOR SPILL OF REPORTABLE QUANTITY OF PETROLEUM PRODUCTS:

ALL PETROLEUM PRODUCTS SHALL BE STORED AND USED IN AN AREA THAT PROVIDES A SECONDARY CONTAINMENT FEATURE. SECONDARY CONTAINMENT STRUCTURE SHALL BE CONSTRUCTED OF FLOOR, WALLS, AND JOINTS AND BE CONSTRUCTED OF A MATERIAL CAPABLE OF ADEQUATELY CONTAINING THOSE FUELS STORED WITHIN. CAPACITY OF THE SECONDARY CONTAINMENT SHALL HAVE A STORAGE VOLUME THAT IS A MINIMUM OF 110% OF THE TOTAL VOLUME CAPACITY OF THE LARGEST PRIMARY CONTAINER STORED WITHIN. RAIN WATER SHALL NOT BE ALLOWED TO COLLECT WITHIN THE SECONDARY CONTAINER AND ADEQUATE COVER SHALL BE PROVIDED TO PREVENT THE INGRESS OF RAIN WATER.

EMERGENCY PROCEDURES FOR SPILLS SHALL BE KEPT IN THE CONSTRUCTION TRAILER INCLUDING EMERGENCY CONTACT NUMBERS. ANY LEAKS OR SPILLS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTAIN, CONTROL, AND REMEDIATE WITH ALL LOCAL, STATE, AND FEDERAL GUIDELINES, ORDINANCES, AND LAWS.

THE CONTRACTOR SHALL LOCATE STORAGE FACILITIES IN AREAS WITH THE LEAST FORESEEABLE IMPACT IF A CATASTROPHIC EVENT SHOULD OCCUR.

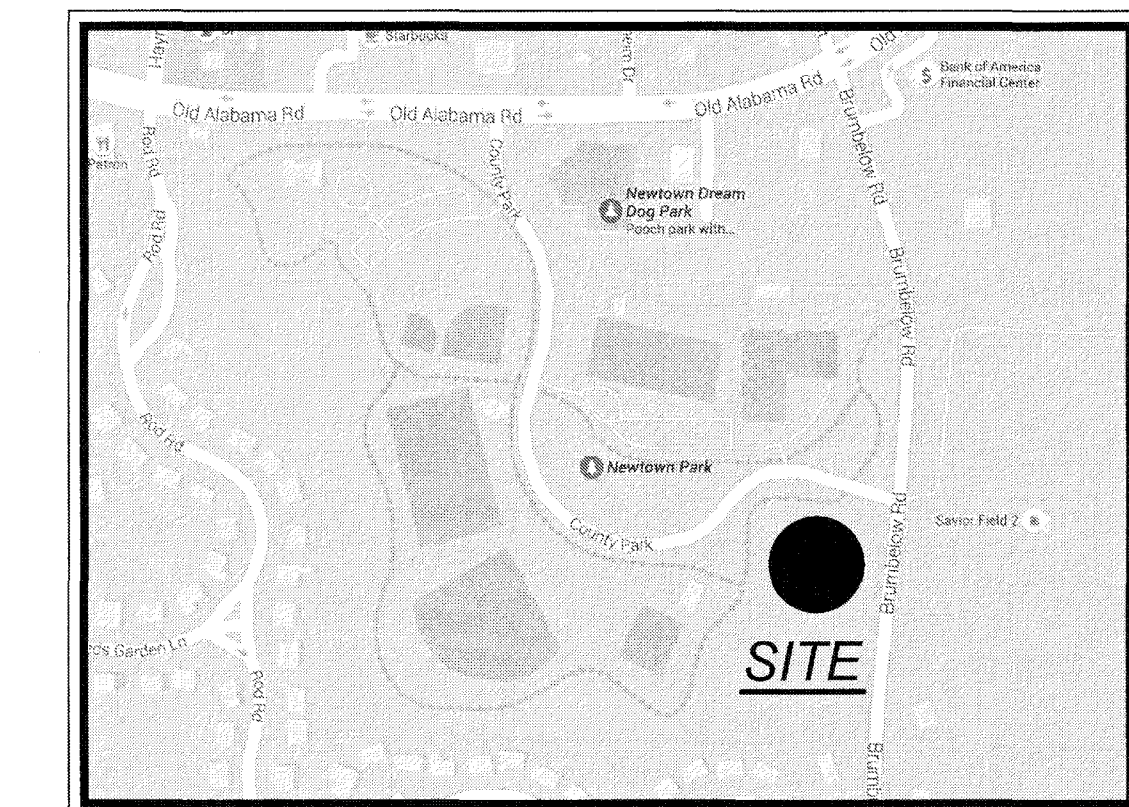
PAINT/CHEMICAL STORAGE, CLEANUP AND DISPOSAL:

PAINT AND/OR OTHER CHEMICALS SHALL BE STORED IN SECURED FACILITIES WITH RESTRICTED ACCESS TO EMPLOYEES ONLY. CLEANUP AND DISPOSAL OF THIS MATERIAL SHALL BE ACCORDANCE WITH ALL RECOGNIZED LOCAL AND FEDERAL REQUIREMENTS. ALL DISPOSAL SHALL BE TO APPROVED OFF-SITE WASTE FACILITIES THAT ACCEPT THIS MATERIAL.

PRACTICES USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES:

PRODUCT SPECIFIC PRACTICES:

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.



VICINITY MAP - N.T.S.



FIRM PANEL No. 13121C0069F

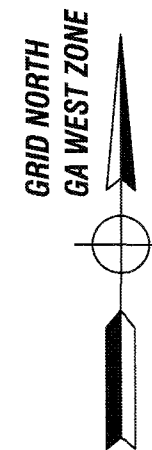
CITY OF JOHNS CREEK APPROVALS

PERMIT SUBMITTAL ONLY
NOT FOR
CONSTRUCTION

LAKE DREDGING PLANS

FOR NEWTOWN PARK

PARCEL ID: 12 318008950090
LAND LOTS 895 AND 924
12TH DISTRICT
CITY OF JOHNS CREEK, GEORGIA
JOHNS CREEK - 30022



PROPERTY ADDRESS:
9800 BRUMBELOW ROAD
JOHNS CREEK, GA 30022

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA," (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED, PROVIDED FOR THE SAMPLING OF THE RECEIVING WATERS) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GA000012447.

6/27/16
DATE

LEVEL II CERTIFIED DESIGN PROFESSIONAL NO. 0000012447

EROSION, SEDIMENT AND POLLUTION CONTROL AND NPDES GENERAL NOTES (CONTINUED):

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - WILL NOT BE USED ON THIS PROJECT SINCE CONCRETE WORK IS NOT REQUIRED.

FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE OSRMC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDINGS OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

HAZARDOUS WASTES:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN A MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. A MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESBPC FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESBPC AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORM WATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES:

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

SEWAGE DISPOSAL FOR THIS PROJECT IS BY EXISTING RESTROOM FACILITIES LOCATED WITHIN NEWTOWN PARK. ALL LOCAL AND STATE SANITARY SEWER REGULATIONS SHALL BE FOLLOWED.

PREPARED FOR:

OWNER/DEVELOPER:

THE CITY OF JOHNS CREEK
12000 FINDLEY ROAD
SUITE 400
JOHNS CREEK, GA 30097

CONTACT: MR. ROBBY NEWTON
(678) 512-3239

PREPARED BY:

SURVEYOR/ENGINEER:



5074 BRISTOL INDUSTRIAL WAY - SUITE A
BUFORD, GEORGIA 30518
(770) 271-2868 / (770) 271-0779 FAX
www.dpengr.com

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24-HR. EROSION AND SEDIMENT
CONTROL CONTACT:
MR. ROBBY NEWTON
(678) 512-3239



SHEET INDEX	
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2	EXISTING CONDITIONS PLAN
3	EROSION CONTROL PLAN - 3 PHASE
4	ESPC AND CONSTRUCTION DETAILS

City of Johns Creek
Paul Clayton
JUL 05 2016

APPROVED
Contributory Development Dept.



LEVEL II CERTIFIED DESIGN
PROFESSIONAL NO. 0000012447

RECEIVED
JUN 28 2016

City of Johns Creek
Community Development

MAINTENANCE STATEMENT: ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE ISSUING AUTHORITY.

WETLANDS NOTE: APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY THE CITY OF JOHNS CREEK OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.

DISPOSAL OF DEBRIS: CONSTRUCTION WASTE AND/OR VEGETATIVE MATERIAL MAY NOT BE BURNED NOR BURIED AND MUST BE TAKEN TO A STATE APPROVED LANDFILL.

7					
6					
5					
4					
3					
2					
1	06/28/16	JCG	INITIAL SUBMITTAL TO THE CITY OF JOHNS CREEK FOR PERMITTING		
No.	DATE	BY	DESCRIPTION		DPE No. 16-021

LDPI 16-1458

CITY OF JOHNS CREEK LDP PERMIT No. XXXXXX

NEWTOWN PARK
CITY OF JOHNS CREEK, GA



5074 BRISTOL INDUSTRIAL WAY
SUITE A
BUFORD, GEORGIA 30518
(770) 271-2868
www.dpengr.com

PREPARED FOR:
CITY OF JOHNS CREEK
12000 FINDLEY ROAD
SUITE 400
JOHNS CREEK, GA 30097

MR. ROBBY NEWTON
(678) 512-3239

PROJECT NAME:

NEWTOWN PARK LAKE DREDGING

TASK:

EXISTING CONDITIONS
CONTOUR MAP
PRE-SEDIMENT REMOVAL

LEVEL II CERTIFIED DESIGN
PROFESSIONAL No. 0000012447



PROJECT INFORMATION:

NEWTOWN PARK DREDGING

Project Name

16-021

Project Number

BRUMBELOW RD./COUNTY PARK DR

Project Address

PARCEL ID: 12 318008950090

Land Lot No.(s)

District
CITY OF JOHNS CREEK
FULTON COUNTY, GEORGIA
County, State

No.	REVISION	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		

CBB DESIGN	AS SHOWN SCALE
CBB DRAWN	2 of 4
JCG CHECKED	
05/11/16 DATE	
	16-021 PROJECT No.

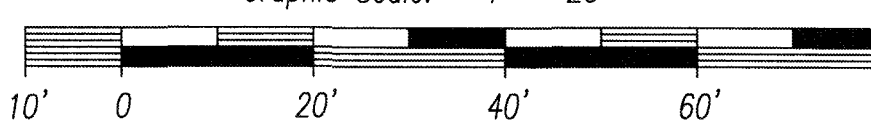
2 of 4

SHEET

05/11/16 DATE	16-021 PROJECT No
------------------	----------------------

LIMITS OF FEMA ZONE "X" FLOOD
ZONE. NO EXISTING OR FUTURE
FLOOD LIMITS ON PROPERTY PER
2015 CITY STUDY

Graphic Scale: 1" = 20'



SOILS INFORMATION FROM MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, FIFTH EDITION.

SERIES	MAP UNIT	EROSION FACTOR K	SAT. HYDRAULIC CONDUCTIVITY MICRO M/SEC	SHRINK/SWELL POTENTIAL
URBAN LAND GROVER MOUNTAIN	UgE	0.17	14-28	LOW
URBAN LAND MADISON BETHLEHEM	UmC2	0.15-0.17	14-28	LOW

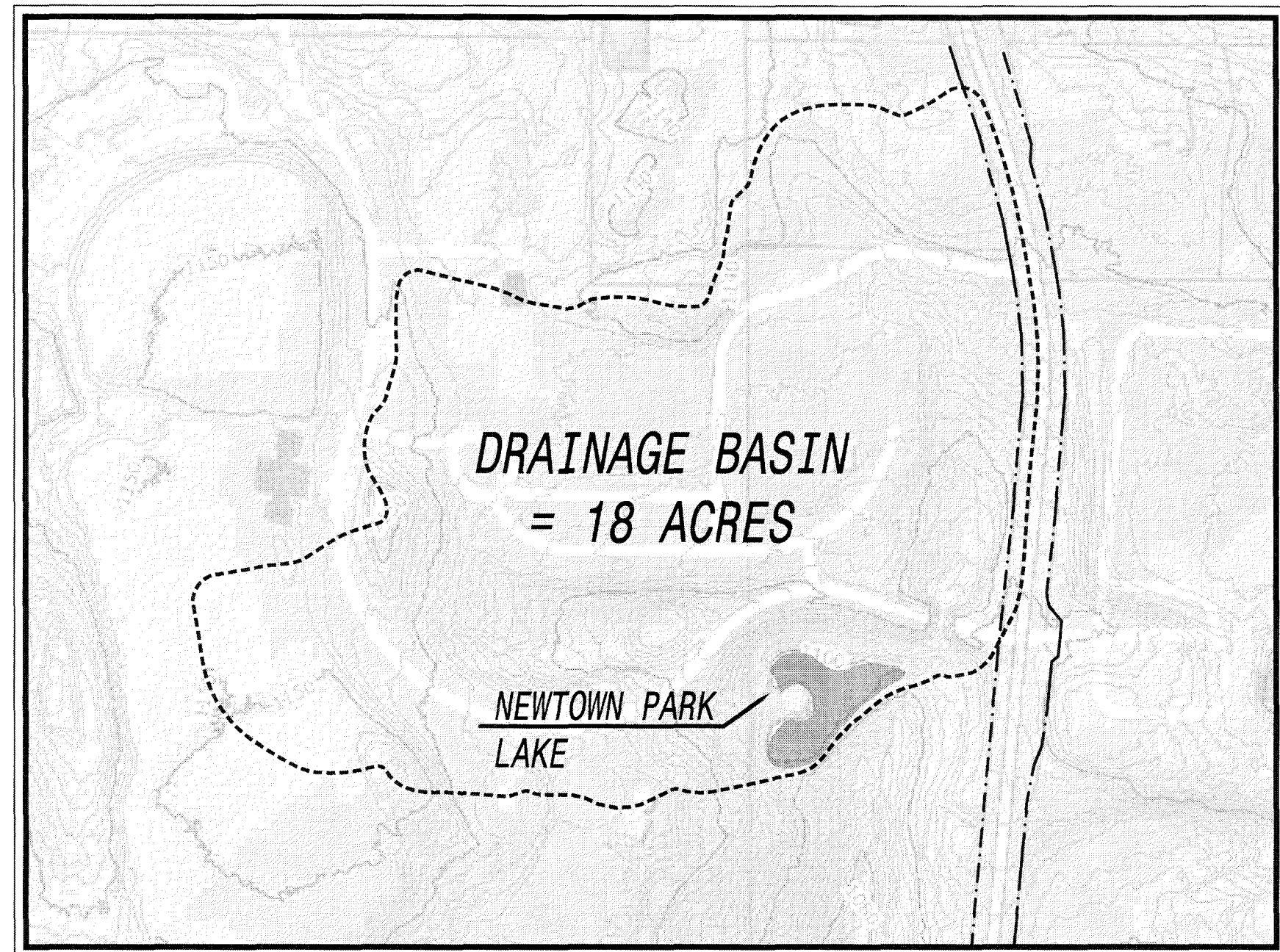
SEDIMENT STORAGE CALCULATIONS:

SEDIMENT WILL BE REMOVED FROM THE EXISTING LAKE BY HYDRAULIC METHODS. THE SEDIMENT/WATER SLURRY WILL BE PUMPED TO A SEPARATE UPLAND LOCATION AND DISCHARGED INTO A GEOBAG. THE GEOBAG'S PURPOSE IS TO TRAP AND DEWATER THE SEDIMENT/WATER SLURRY.

THE GEOBAG WILL SERVE AS THE SEDIMENT STORAGE BMP FOR THIS PROJECT. ESTIMATED VOLUME OF SEDIMENT TO BE REMOVED IS 700 CY.

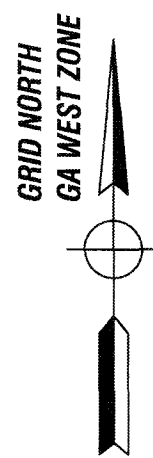
CRITICAL AREA STATEMENT AND LOCATIONS:

- THIS SITE DOES CONTAIN CRITICAL AREAS AS INDICATED ON THE EROSION CONTROL PLANS.
- A FILTER RING WILL BE PROVIDED AT THE EXISTING OUTLET CONTROL STRUCTURE. IN ADDITION, THE EXISTING LAKE POOL WILL BE LOWERED DURING DREDGING TO OBTAIN ZERO DISCHARGE FROM THE LAKE WHILE DREDGING (WILL BE DISCHARGE DURING RAINFALL EVENTS).



DRAINAGE AREA MAP

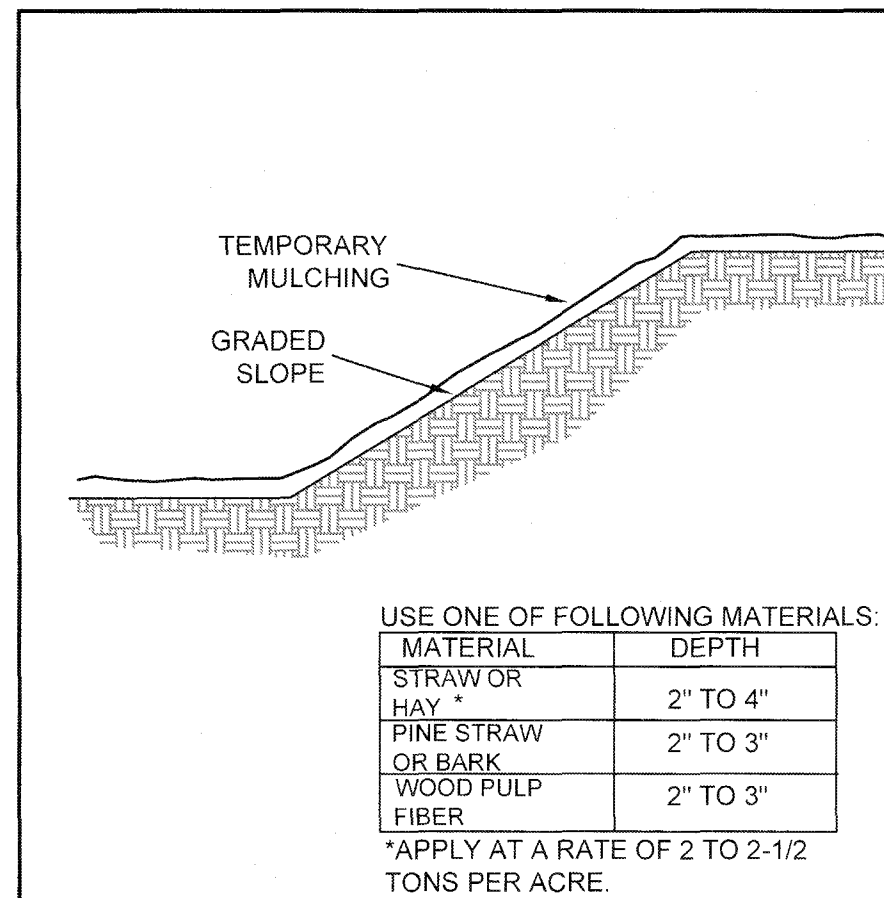
SCALE: 1"=200'



PHASE/INFRASTRUCTURE	12 MONTH SCHEDULE (SEPTEMBER 2016 - OCTOBER 2016)													
	SEPTEMBER 2016				OCTOBER 2016				NOVEMBER 2016					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
INSTALLATION OF SILT FENCE AND CHECKDAMS														
INSTALLATION OF GEOBAG AND PERIMETER BMPs														
HYDRAULIC DREDGING														
MAINTAIN EROSION AND SEDIMENT CONTROL BMPs														
FINAL GRASSING AND CLEAN-UP														
SITE CLEAN-UP AND REMOVAL OF TEMPORARY EROSION CONTROL MEASURES														
GEOBAG DEWATERING														
REMOVE DRIED SEDIMENT FROM GEOBAG AND TRANSPORT OFF-SITE OR USE WITHIN PARK PROPERTY AS NEEDED														

SWDC:															
Project Name:		Address:													
City/County:		Date on Plans:													
STAND ALONE CONSTRUCTION PROJECTS															
TO BE SHOWN ON ES&PC PLAN															
Page #	Included														
4	Y/N														
1	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed.)													
1	Y	2 Level I certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level I number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed.)													
	N/A	3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist. (A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.)													
1	Y	4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.													
1	Y	5 Provide the name, address and phone number of primary permittee.													
1	Y	6 Note total and disturbed acreage of the project or phase under construction.													
3	Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.													
ALL	Y	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.													
1	Y	9 Description of the nature of construction activity.													
1	Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.													
1,2,3	Y	11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.													
1	Y	12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.													
	N/A	13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.													
1	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."													
1	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point of waste discharge or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."													
	N/A	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.													
1	Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."													
1	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."													
1	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."													
1	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."													
1	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."													
	N/A	22 Any construction activity which discharges storm water into an impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Blot Impaired Stream Segment must comply with Part II, C, of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the impaired Stream Segment."													
	N/A	23 If a TMDL Implementation Plan for sediment has been finalized for the impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan."													
	N/A	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited."													
1	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.													
	N/A	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed."													
	N/A	27 Description of the practices that will be used to reduce the pollutants in storm water discharges."													
4	Y	28 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e. initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).													
	N/A	29 Provide complete requirements of inspections and record keeping by the primary permittee."													
	N/A	30 Provide complete requirements of sampling frequency and reporting of sampling results."													
	N/A	31 Provide complete details for retention of records as per Part IV.F. of the permit."													
	N/A	32 Description of analytical methods to be used to collect and analyze the samples from each location."													
	N/A	33 Appendix B rationale for NTU values at all outfall sampling points where applicable."													
	N/A	34 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged."													
	N/A	35 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase."													
ALL	Y	36 Graphic scale and North arrow.													
2,3	Y	37 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:													
		<table><tr><th>Map Scale</th><th>Ground Slope</th><th>Contour Intervals, ft</th></tr><tr><td>1 inch = 100 ft or larger scale</td><td>Flat 0 - 2%</td><td>0.5 or 1</td></tr><tr><td></td><td>Rolling 2 - 8%</td><td>1 or 2</td></tr><tr><td></td><td>Steep 8% +</td><td>2.5 or 10</td></tr></table>		Map Scale	Ground Slope	Contour Intervals, ft	1 inch = 100 ft or larger scale	Flat 0 - 2%	0.5 or 1		Rolling 2 - 8%	1 or 2		Steep 8% +	2.5 or 10
Map Scale	Ground Slope	Contour Intervals, ft													
1 inch = 100 ft or larger scale	Flat 0 - 2%	0.5 or 1													
	Rolling 2 - 8%	1 or 2													
	Steep 8% +	2.5 or 10													
	N/A	38 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gawc.org .													
	N/A	39 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2015 Edition."													
2,3	Y	40 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.													
2,3	Y	41 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.													
4	Y	42 Delineation and acreage of contributing drainage basins on the project site.													
	N/A	43 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions."													
1	Y	44 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.													
3	Y	45 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.													
3	Y	46 Soil series for the project site and their delineation.													
3	Y	47 The limits of disturbance for each phase of construction.													
3,4	Y	48 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbing activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, debris are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.													
3	Y	49 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.													
4	Y	50 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.													
4	Y	51 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.													
*Using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream (i.e. checklist items would be 1 through 3)															
Effective January 1, 2016															

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the " checklist items would be ? Effective January 1, 2016



MATERIAL	DEPTH
STRAW OR HAY	2" TO 4"
PINE STRAW OR BARK	2" TO 3"
WOOD PULP FIBER	2" TO 3"

*APPLY AT A RATE OF 2 TO 2-1/2 TONS PER ACRE.

PERMANENT GRASSING

PERMANENT GRASSING SHALL CONSIST OF GROUND PREPARATION, LIMING AND FERTILIZATION, SEEDING, AND MULCHING.

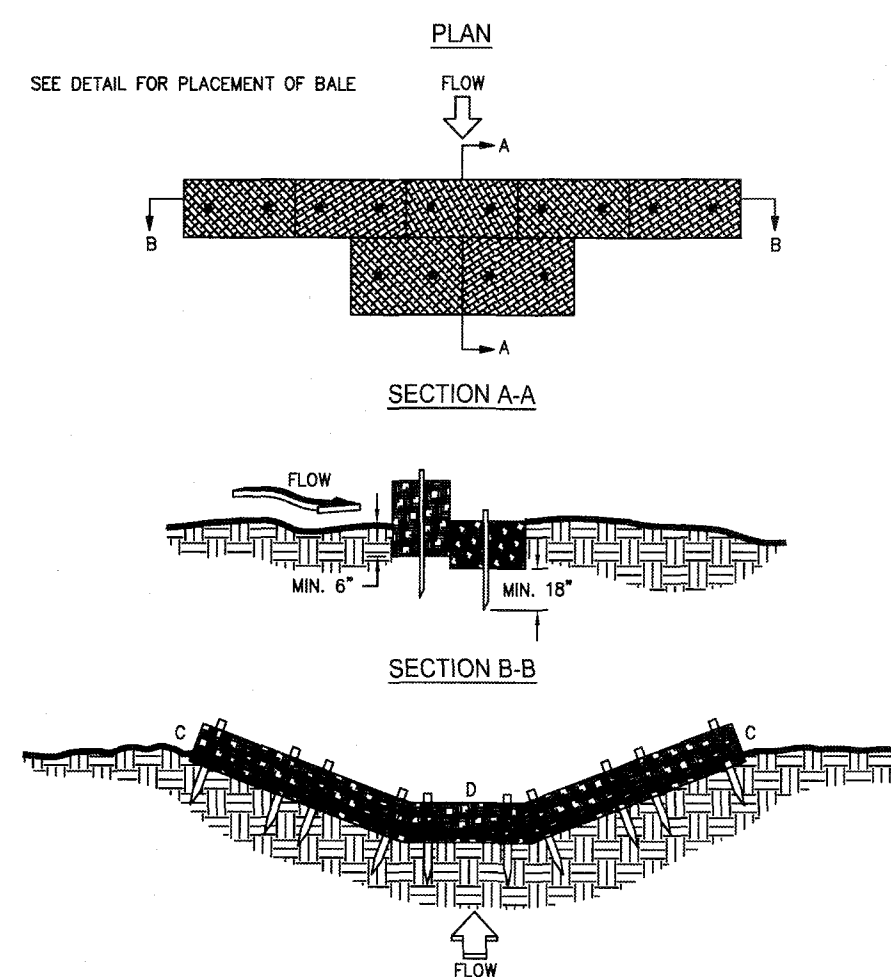
THE GROUND SHALL BE PREPARED BY PLOWING AND DISKING NOT LESS THAN 4-INCHES. FERTILIZER AND LIME SHALL BE UNIFORMLY MIXED INTO THE GROUND. FERTILIZER AT A RATE OF 1500 LBS. PER ACRE AND LIME AT A RATE OF 4000 LBS. PER ACRE (OR AS DICTATED BY SOIL TESTING). THE GROUND SHALL BE FINISHED OFF SMOOTH AND UNIFORM BEING FREE OF ROCKS, CLODS, ROOTS, ETC. FERTILIZER MIXED GRADE SHALL BE 6-12-12. SEEDING SHALL BE COMPLETE WITHIN 24 HOURS OF THE FERTILIZER APPLICATION. SEED SHALL BE UNIFORMLY SPREAD AT THE RATE SHOWN BELOW. MULCHING IS REQUIRED AND SHALL BE COMPLETED IMMEDIATELY AFTER SEEDING. MULCH SHALL BE UNIFORMLY APPLIED OVER THE SEEDED AREA LEAVING APPROXIMATELY 25 PERCENT OF THE GROUND SURFACE EXPOSED. THE RATE OF APPLICATION SHOWN BELOW SHALL BE DOUBLED ON SLOPES 4H:1V AND STEEPER.

SPECIES	RATE	PLANTING DATE	SECOND YEAR FERTILIZATION
HULLED COMMON BERMUDA GRASS	10 LBS. PER ACRE	FEBRUARY - JULY	800 LBS. PER ACRE BERMUDA GRASS
UNHULLED COMMON BERMUDA GRASS AND RYE GRASS	10 LBS. PER ACRE	AUGUST - JANUARY	800 LBS. PER ACRE BERMUDA GRASS AND RYE GRASS
TALL FESCUE	50 LBS. PER ACRE	AUGUST - OCTOBER	1000 LBS. PER ACRE
MULCHING	5000 LBS. PER ACRE		

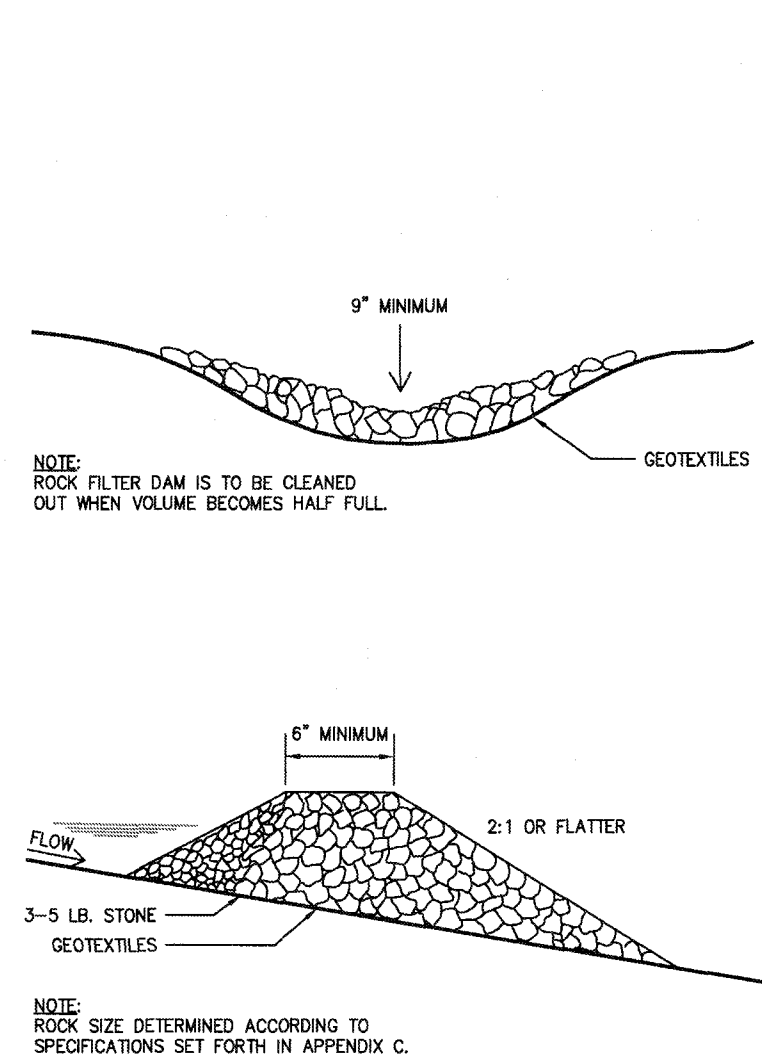
DS1

DS3

TYPICAL STRAW BALE CHECK DAM



ROCK FILTER DAM



DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

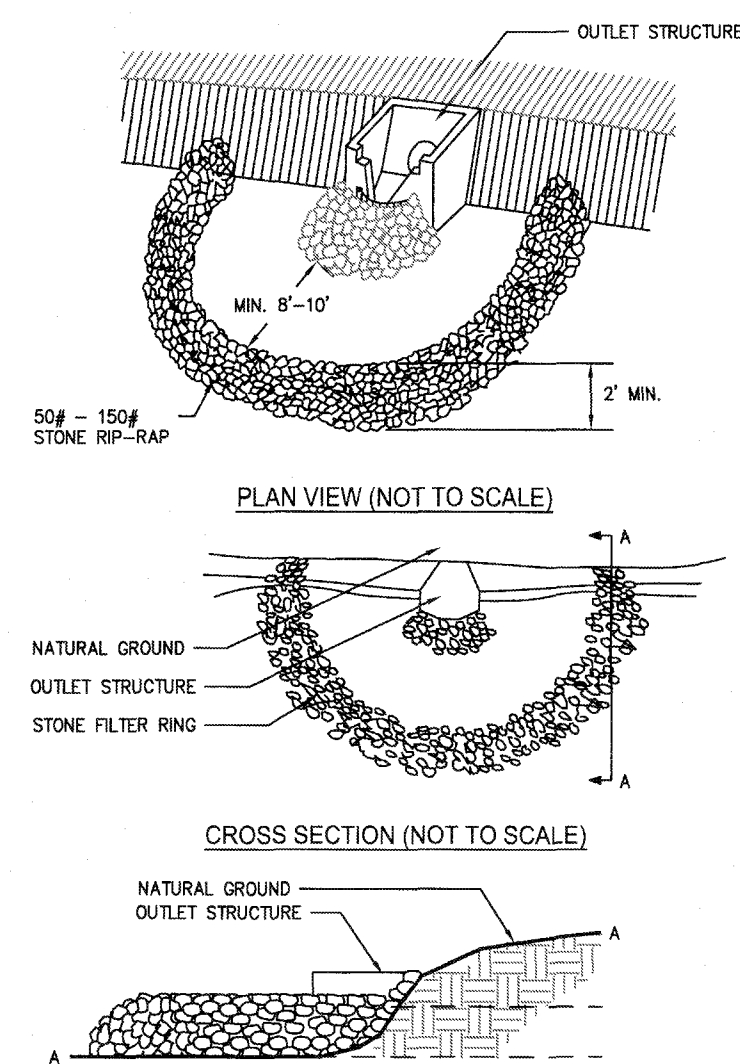
REV.	BY	DATE	DESCRIPTION

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

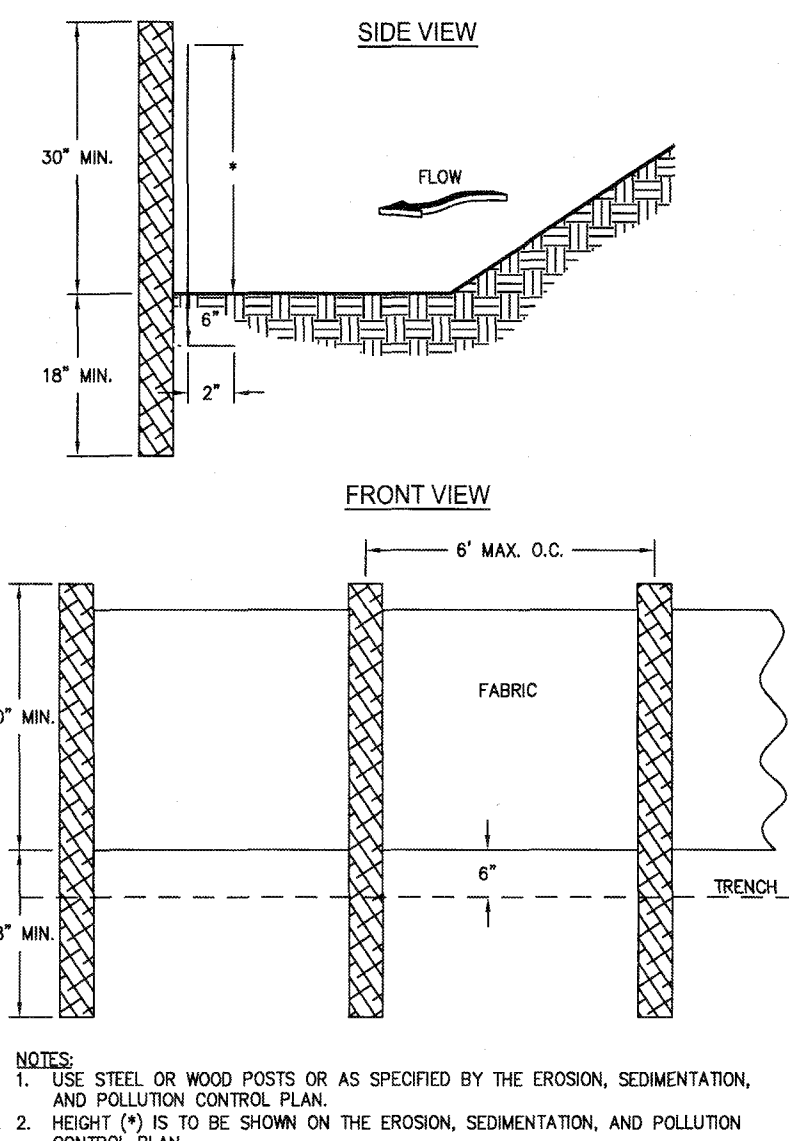
REV.	BY	DATE	DESCRIPTION

STONE FILTER RING

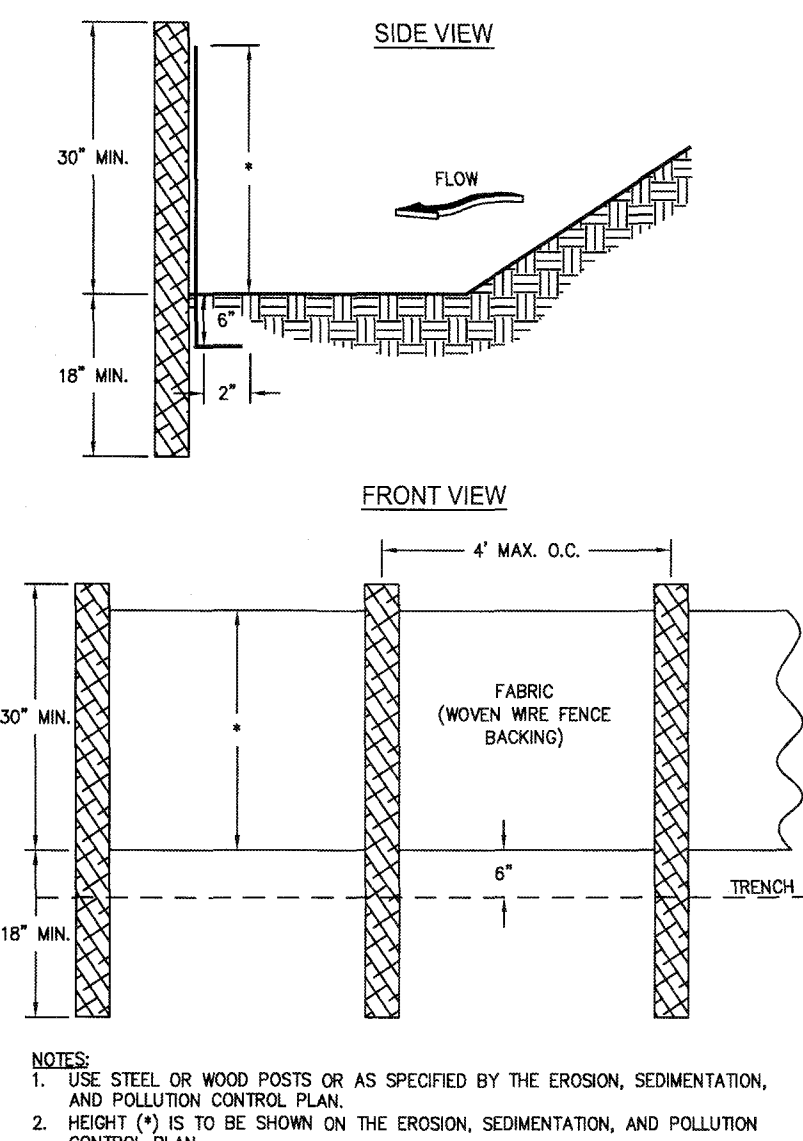
PERSPECTIVE VIEW



SILT FENCE - TYPE NON-SENSITIVE

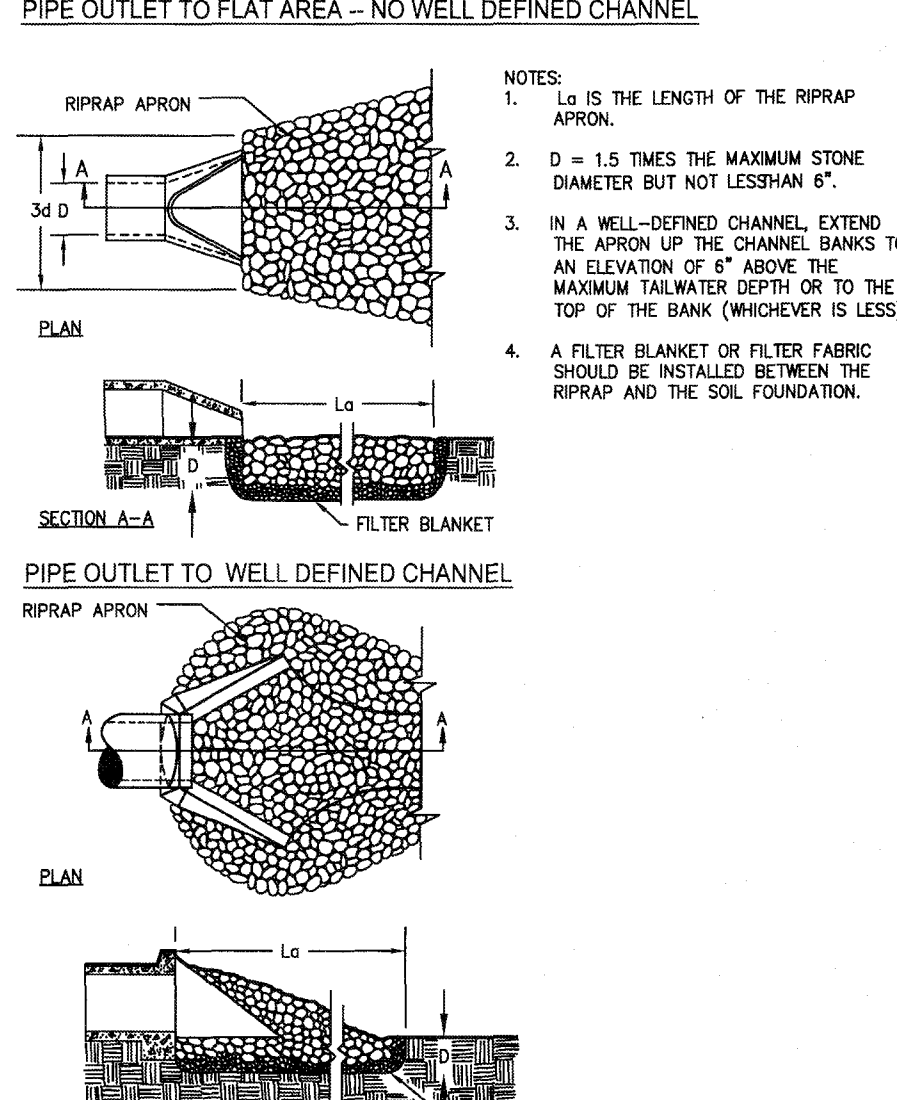


SILT FENCE - TYPE SENSITIVE



RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



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